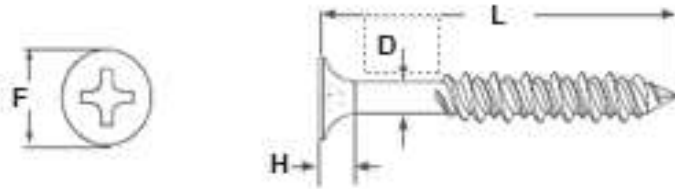




Dimensional Specifications of Concrete / Masonry Screws

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Dimensions of Flat Head Phillips Tapcon®-Style Concrete Screws

Aspen Fasteners Part #	Screw Diameter (D)	Thread Size	Head Height (H)	Head Diameter (F)	Screw Length (L)	Drill Bit Size (inches)	Phillips Driver Bit Size	Fixture Hole Size (inches)	Weight LBS per 1000pcs
AN001-316X114	3/16"	11-16	9/64"	3/8"	1-1/4"	5/32"	#2	1/4"	7.5
AN001-316X134	3/16"	11-16	9/64"	3/8"	1-3/4"	5/32"	#2	1/4"	9.5
AN001-316X214	3/16"	11-16	9/64"	3/8"	2-1/4"	5/32"	#2	1/4"	12.5
AN001-316X234	3/16"	11-16	9/64"	3/8"	2-3/4"	5/32"	#2	1/4"	15.0
AN001-316X314	3/16"	11-16	9/64"	3/8"	3-1/4"	5/32"	#2	1/4"	17.5
AN001-316X334	3/16"	11-16	9/64"	3/8"	3-3/4"	5/32"	#2	1/4"	22.5
AN001-316X4	3/16"	11-16	9/64"	3/8"	4"	5/32"	#2	1/4"	25.0
AN001-14X114	1/4"	1/4-15	3/16"	1/2"	1-1/4"	3/16"	#3	5/16"	15.0
AN001-14X134	1/4"	1/4-15	3/16"	1/2"	1-3/4"	3/16"	#3	5/16"	17.5
AN001-14X214	1/4"	1/4-15	3/16"	1/2"	2-1/4"	3/16"	#3	5/16"	20.0
AN001-14X234	1/4"	1/4-15	3/16"	1/2"	2-3/4"	3/16"	#3	5/16"	27.5
AN001-14X314	1/4"	1/4-15	3/16"	1/2"	3-1/4"	3/16"	#3	5/16"	32.5
AN001-14X334	1/4"	1/4-15	3/16"	1/2"	3-3/4"	3/16"	#3	5/16"	37.5
AN001-14X4	1/4"	1/4-15	3/16"	1/2"	4"	3/16"	#3	5/16"	45.0
AN001-14X5	1/4"	1/4-15	3/16"	1/2"	5"	3/16"	#3	5/16"	45.0

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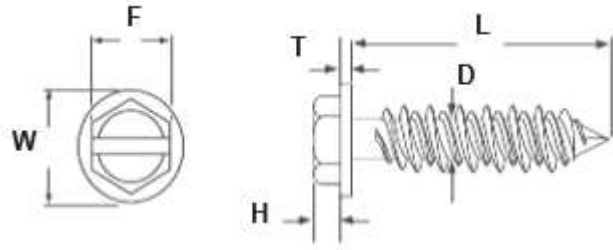


Mechanical Properties of Flat Head Phillips Tapcon®-Style Concrete Screws

Aspen Fasteners Part #	Head Style	Thread Size	Minimum Embedment	Maximum Embedment	Drill Bit Size (inches)	Tensile Strength lbs	Shear Strength lbs	Tensile Strength lbs	Shear Strength lbs
						in 4000psi concrete 1-1/4" embedment		in concrete block 1-1/4" embedment	
AN001-316X114	Flat Phillips	3/16" X 1-1/4"	1"	1-3/4"	5/32" x 3-1/2"	1060	1250	760	1020
AN001-316X134	Flat Phillips	3/16" X 1-3/4"			5/32" x 3-1/2"				
AN001-316X214	Flat Phillips	3/16" X 2-1/4"			5/32" x 4-1/2"				
AN001-316X234	Flat Phillips	3/16" X 2-3/4"			5/32" x 4-1/2"				
AN001-316X314	Flat Phillips	3/16" X 3-1/4"			5/32" x 5-1/2"				
AN001-316X334	Flat Phillips	3/16" X 3-3/4"			5/32" x 5-1/2"				
AN001-316X4	Flat Phillips	3/16" X 4"			5/32" x 5-1/2"				
AN001-14X114	Flat Phillips	1/4" X 1-1/4"	1"	1-3/4"	3/16" x 3-1/2"	1540	2150	880	1270
AN001-14X134	Flat Phillips	1/4" X 1-3/4"			3/16" x 3-1/2"				
AN001-14X214	Flat Phillips	1/4" X 2-1/4"			3/16" x 4-1/2"				
AN001-14X234	Flat Phillips	1/4" X 2-3/4"			3/16" x 4-1/2"				
AN001-14X314	Flat Phillips	1/4" X 3-1/4"			3/16" x 5-1/2"				
AN001-14X334	Flat Phillips	1/4" X 3-3/4"			3/16" x 5-1/2"				
AN001-14X4	Flat Phillips	1/4" X 4"			3/16" x 6-1/2"				
AN001-14X5	Flat Phillips	1/4" X 5"			3/16" x 7-1/2"				

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Dimensions of Slotted Hex Washer Head Tapcon®-Style Concrete Screws

Aspen Fasteners Part #	Screw Dia (D)	Thread Size	Head Height (H)	Across Flats (F)	Washer Diameter (W)	Washer Thickness (T)	Screw Length (L)	Drill Bit Size (inches)	Hex Socket Size	Fixture Hole Size (inches)	Weight LBS per 1000pcs
AN002-316X114	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	1-1/4"	5/32"	1/4"	1/4"	7.5
AN002-316X134	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	1-3/4"	5/32"	1/4"	1/4"	10.0
AN002-316X214	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	2-1/4"	5/32"	1/4"	1/4"	12.5
AN002-316X234	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	2-3/4"	5/32"	1/4"	1/4"	15.0
AN002-316X314	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	3-1/4"	5/32"	1/4"	1/4"	17.5
AN002-316X334	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	3-3/4"	5/32"	1/4"	1/4"	22.5
AN002-316X4	3/16"	11-16	7/64"	1/4"	11/32"	1/32"	4	5/32"	1/4"	1/4"	25
AN002-14X114	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	1-1/4"	3/16"	5/16"	5/16"	15.0
AN002-14X134	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	1-3/4"	3/16"	5/16"	5/16"	17.5
AN002-14X214	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	2-1/4"	3/16"	5/16"	5/16"	20.0
AN002-14X234	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	2-3/4"	3/16"	5/16"	5/16"	27.5
AN002-14X314	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	3-1/4"	3/16"	5/16"	5/16"	32.5
AN002-14X334	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	3-3/4"	3/16"	5/16"	5/16"	37.5
AN002-14X4	1/4"	1/4-15	9/64"	5/16"	13/32"	1/32"	4"	3/16"	5/16"	5/16"	45.0

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Mechanical Properties of Slotted Hex Washer Head Tapcon®-Style Concrete Screws

Aspen Fasteners Part #	Head Style	Thread Size	Minimum Embedment	Maximum Embedment	Drill Bit Size (inches)	Tensile Strength lbs	Shear Strength lbs	Tensile Strength lbs	Shear Strength lbs
						in 4000psi concrete 1-1/4" embedment		in concrete block 1-1/4" embedment	
AN002-316X114	Hex Washer	3/16" X 1-1/4"	1"	1-3/4"	5/32" x 3-1/2"	1060	1250	760	1020
AN002-316X134	Hex Washer	3/16" X 1-3/4"			5/32" x 3-1/2"				
AN002-316X214	Hex Washer	3/16" X 2-1/4"			5/32" x 4-1/2"				
AN002-316X234	Hex Washer	3/16" X 2-3/4"			5/32" x 4-1/2"				
AN002-316X314	Hex Washer	3/16" X 3-1/4"			5/32" x 5-1/2"				
AN002-316X334	Hex Washer	3/16" X 3-3/4"			5/32" x 5-1/2"				
AN002-316X4	Hex Washer	3/16" X 4"			5/32" x 5-1/2"				
AN002-14X114	Hex Washer	1/4" X 1-1/4"	1"	1-3/4"	3/16" x 3-1/2"	1540	2150	880	1270
AN002-14X134	Hex Washer	1/4" X 1-3/4"			3/16" x 3-1/2"				
AN002-14X214	Hex Washer	1/4" X 2-1/4"			3/16" x 4-1/2"				
AN002-14X234	Hex Washer	1/4" X 2-3/4"			3/16" x 4-1/2"				
AN002-14X314	Hex Washer	1/4" X 3-1/4"			3/16" x 5-1/2"				
AN002-14X334	Hex Washer	1/4" X 3-3/4"			3/16" x 5-1/2"				
AN002-14X4	Hex Washer	1/4" X 4"			3/16" x 6-1/2"				

Tapcon®-Style Concrete Screws

These generic blue Ruspert finish concrete screws are case hardened steel with a diamond shape nail point. They have a double lead thread and are fully threaded with a high-low thread profile and notches cut into the raised thread. They are ideal for light or medium duty applications primarily used indoors for attaching objects to concrete, brick or block. Applications include attaching 2x4 lumber and furring strips to concrete as well as light fixtures or electrical junction boxes to brick or block wall.

Installation of concrete screws is simple. First, a correct diameter hole must be drilled in the base material for the screw being installed. The hole should be drilled to a depth that will insure that the screw does not reach the bottom of the hole when fully installed. To ensure that the concrete screw does not strip the threads tapped into the base material, the last few turns of the screw should be done by hand.

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The anchoring power of concrete screws will depend very much on the strength of the base material that the screw will be installed. A rule of thumb is that the harder the base material then the stronger anchoring capacity. As these screws cut their own threads into the concrete, they can be removed and reinserted into the same hole. The Ruspert finish is a ceramic coating that can be used with pressure treated lumber.

Concrete screws are available with two head styles: slotted hex washer head for surface mounted fastening or a flat countersunk head Phillips drive for applications where the top of the head needs to be flush with the surface of the item being fastened. Different lengths are available for different thickness of materials being fastened. The generic concrete screw requires a minimum embedment of 1" and a maximum embedment of 1-3/4". To determine the correct length of screw to be used for any specific application, add 1" to the thickness of the material being fastened to get the minimum length screw required. Adding 1-3/4" to the thickness of the material being fastened for the maximum length of concrete screw to use.

Disclaimer

Dimensional data and technical information for Tapcon®-style concrete screws was obtained from publicly available sources and not acquired through standards agencies. It has been completed and compiled for reference purposes only; where discrepancies are found they are subject to change without notice. Aspen Fasteners makes no warranties or representations regarding the accuracy and validity of the compiled information and data.

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